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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/050,764 01/18/2002		01/18/2002	Thomas J. Walls	CIG-109	7742
28970	7590	10/17/2006		EXAMINER	
PILLSBUR'	Y WINT	HROP SHAW PIT	CERVETTI, DAVID GARCIA		
P.O. BOX 10	500				
MCLEAN, VA 22102				ART UNIT	PAPER NUMBER
,				2136	

DATE MAILED: 10/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary    10/050,764		Anniinetian Na	A U 4(-)						
Examiner David G. Cervetti 2136  - The MAILING DATE of this communication appears on the cover sheet with the correspondence addrass Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Exceleration of time may be available under the provisions of 3°C FR 1.138(a), In no event, however, may a reply be simely filed sheet St (30) MONTHS from the mining date of this communication.  - Falure to reply within the set or extended offer reply with by statute, cause the application to become ANANONEO (59 U.S.C. § 133).  Arry reply received by the Office lates the network and start in mailing date of this communication.  - Falure to reply within the set or extended for reply with by statute, cause the application to become ANANONEO (59 U.S.C. § 133).  Arry reply received by the Office lates the network and start in mailing date of this communication, event if trively filed, may reduce any exempt patient term adjustment. See 3° CFR 1.704(b).  Status  1) □ Responsive to communication(s) filed on 03 August 2006.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex partie Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-11 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) □ Claim(s) 1-11 is/are rejected.  7) □ Claim(s) 1-11 is/are rejected.  7) □ Claim(s) 1-11 is/are rejected.  7) □ Claim(s) 1-11 is/are rejected.  10) □ The drawing(s) filed on 18 January 2002 is/are: a) □ accepted or b) □ objected to by the Examiner.  Application Papers  9) □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on 18 January 2002 is/are: a) □ accepted or b □ objected to by the Examiner.  Applicant may not request that any objection to the drawi		Application No.	Applicant(s)						
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ON L. I Nesting of Deadless and Describe Devices (DTO 040).  Deport No(a)/Mail Data									
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application (PTO-152)		. 🗖							
Paper No(s)/Mail Date 6)  Other:									

Application/Control Number: 10/050,764 Page 2

Art Unit: 2136

#### **DETAILED ACTION**

1. Applicant's arguments filed August 3, 2006, have been fully considered.

2. Claims 1-11 are pending and have been examined. Claims 12-19 have been cancelled.

# Response to Amendment

3. Applicant's arguments with respect to the prior art have been considered but are most in view of the new ground(s) of rejection.

## Continued Examination Under 37 CFR 1.114

4. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

## Claim Rejections - 35 USC § 102

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Ghosh et al. (NPL "An automated approach for identifying potential vulnerabilities in software", hereinafter Ghosh).

**Regarding claims 1 and 6**, Ghosh teaches a method for certifying software applications (abstract), said method comprising:

Application/Control Number: 10/050,764

Art Unit: 2136

- (a) creating a vulnerability knowledge database comprising one or more classes of known software vulnerabilities (section 2.3.1);

Page 3

- (b) applying a code parser to the software application to create an abstract syntax tree (section 4);
- (c) comparing the abstract syntax tree and the classes of known software vulnerabilities to identify a set of potential exploitable software vulnerabilities (section 4);
- (d) performing a static analysis of the source code, wherein the static
  analysis is flow sensitive analysis of a list of constraints, and wherein the
  results of the static analysis comprise a set of exploitable software
  vulnerabilities (section 4);
- (e) performing a first dynamic analysis of the software, wherein the first dynamic analysis comprises a set of tests to achieve code coverage (section 2.2);
- (f) performing a second dynamic analysis of the software, wherein the second dynamic analysis comprises injecting faults into the software while being executed (section 2.3); and
- (g) performing any two of said analysis steps in a pipelined manner
   (section 2.3).

Regarding claims 2 and 7, Ghosh teaches performing a dynamic analysis of the set of exploitable software vulnerabilities to identify one or more false positives in the

Art Unit: 2136

set of exploitable software vulnerabilities; and discarding the one or more false positives from the set of exploitable software vulnerabilities (section 2.3.1).

Regarding claims 3 and 8, Ghosh teaches wherein performing the dynamic analysis comprises executing the set of potential exploitable software vulnerabilities with a maximal number of testing configurations (section 2.3.1).

Regarding claims 4 and 9, Ghosh teaches wherein the vulnerability knowledge database is expandable (figure 1).

Regarding claims 5 and 11, Ghosh teaches wherein the set of exploitable software vulnerabilities comprises one or more of a security vulnerability, a safety vulnerability, or a reliability vulnerability (sections 2.2-2.3).

Regarding claim 10, Ghosh teaches a user interface that enables a user to enter an additional known software vulnerability to the vulnerability knowledge database (section 4).

Application/Control Number: 10/050,764 Page 5

Art Unit: 2136

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David G. Cervetti whose telephone number is (571) 272-5861. The examiner can normally be reached on Monday-Friday 7:00 am - 5:00 pm, off on Wednesday.

- 8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser G. Moazzami can be reached on (571) 272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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